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RELIABILITY PREDICTION

Model : Q-60 Data:2000-01-24

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	26	0.003700	10	0.962000	27.399
9.1	Resistor-Film Power (RD)	2	0.010000	10	0.200000	5.696
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	2.421
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	11.393
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.399
10.1	Capacitor-Metal, Plastic (CH)	7	0.000510	10	0.035700	1.017
10.1	Capacitor-Ceramic(Gen.) (CK)	14	0.001700	10	0.238000	6.779
10.1	Capacitor-Aluminum Dry (CE)	12	0.001300	10	0.156000	4.443
6.1	Diode-Gen. Purpose Analog	2	0.003600	8	0.057600	1.641
6.1	Diode-Switching	4	0.000940	8	0.030080	0.857
6.1	Diode-Fast Recovery Power Rectifier	2	0.023000	8	0.368000	10.481
6.1	Diode-Power Rectifier / Schottky Power	6	0.002800	8	0.134400	3.828
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	1	0.003300	8	0.026400	0.752
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.570
6.4	Transistor-MOSFET	1	0.014000	8	0.112000	3.190
6.11	OPTO-isolator	1	0.027000	8	0.216000	6.152
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.107
5.1	Linear Microcircuits	4	0.009500	10	0.380000	10.823
11.1	Transformer Switching	1	0.000610	3	0.001830	0.052
11.2	Coil Fixed inductor or choke	3	0.000032	3	0.000288	0.008
17.1	Single Connections-Reflow solder	228	0.000069	1	0.015732	0.448
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.007
22.1	Fuses	1	0.010000	1	0.010000	0.285
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.253
Total Failure rate:					3.511030	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 284816.71 **hrs**

Approved by: David Wang Compiled by: Kim Tseng